

WHAT IS CLAIMED IS:

1. A peptide having no more than six amino acid residues which comprises a C-terminal LipAr motif.
2. The peptide of claim 1 comprising a penultimate C-terminal Lip residue selected from the group consisting of Ile, Val and Leu.
3. The peptide of claim 1 comprising a C-terminal Ar residue selected from the group consisting of Tyr, Phe, His and Trp.
4. The peptide of claim 1 comprising a C-terminal motif selected from the group consisting of Ile-Tyr, Ile-Phe, Ile-Trp, Val-Tyr and Leu-Tyr.
5. The peptide of claim 1 comprising a C-terminal Ile-Ile-Tyr motif.
6. The peptide of claim 1 having the sequence Pro-Arg-Ala-Arg-Ile-Tyr (SEQ ID NO:24), Arg-Ala-Arg-Ile-Tyr (SEQ ID NO:25), Ala-Arg-Ile-Tyr (SEQ ID NO:26), Arg-Ile-Tyr or Ile-Tyr.
7. The peptide of claim 1 wherein said peptide is capable of modulating $\beta 1$ integrin subunit dependent adhesion.
8. The peptide of claim 7 wherein said peptide is capable of inhibiting $\beta 1$ integrin subunit dependent adhesion.
9. The peptide of claim 7 wherein said peptide is capable of modulating $\alpha 4 \beta 1$ integrin dependent adhesion.
10. The peptide of claim 9 wherein said peptide is capable of inhibiting $\alpha 4 \beta 1$ integrin dependent cell adhesion.

11. The peptide of claim 10 wherein said peptide is capable of inhibiting $\alpha 4\beta 1$ integrin dependent adhesion of Ramos cells to $\alpha 4\beta 1$ integrin binding fibronectin fragments.
12. A peptide having no more than about 10 amino acid residues which comprises a C-terminal LipAr motif and has no more than about 80% identity with WQPPRARIY (SEQ ID NO:1), wherein said peptide does not contain a D-amino acid residue.
13. The peptide of claim 12 comprising a C-terminal sequence selected from the group consisting of ARITGYIY (SEQ ID NO:14), RARITGYIY (SEQ ID NO:13), PRQAWRPIY (SEQ ID NO:18), RPAPQRWIY (SEQ ID NO:20), and WQPPDADIY (SEQ ID NO: 38)).
14. The peptide of claim 12 having no more than about 50% homology with WQPPRARIY (SEQ ID NO:1).
15. A peptide having no more than about 50 amino acid residues which comprises a C-terminal sequence selected from the group consisting of AQPPRARIY (SEQ ID NO:3), WAPPRARIY (SEQ ID NO:4), WQAPRARIY (SEQ ID NO:5), WQPARARIY (SEQ ID NO:6), WQPPAARIY (SEQ ID NO:7), WQPPRAAIY (SEQ ID NO:8), ARITGYIY (SEQ ID NO:14), RARITGYIY (SEQ ID NO:13), PRQAWRPIY (SEQ ID NO:18), RPAPQRWIY (SEQ ID NO:20), WQPPRARLY (SEQ ID NO:28), WQPPRARVY (SEQ ID NO:29), WQPPRARIF (SEQ ID NO:32), WQPPRARIW (SEQ ID NO:33), and WQPPDADIY (SEQ ID NO: 38).
16. The peptide of claim 15 having the sequence AQPPRARIY (SEQ ID NO:3), WAPPRARIY (SEQ ID NO:4), WQPPAARIY (SEQ ID NO:7) or WQPPRAAIY (SEQ ID NO:8).

17. The peptide of claim 15 having the sequence WQAPRARIY (SEQ ID NO:5) or WQPARARIY (SEQ ID NO:6).
18. The peptide of claim 15 having the sequence ARITGYIY (SEQ ID NO:14), or RARITGYIY (SEQ ID NO:13).
19. The peptide of claim 15 having the sequence PRQAWRPIY (SEQ ID NO:18), or RPAPQRWIY (SEQ ID NO:20).
20. The peptide of claim 15 having the sequence WQPPRARLY (SEQ ID NO:28), WQPPRARVY (SEQ ID NO:29), WQPPRARIF (SEQ ID NO:32), or WQPPRARIW (SEQ ID NO:33).
21. The peptide of claim 15 having the sequence WQPPDADIY (SEQ ID NO: 38).
22. The peptide of claim 15 having no more than about 15 amino acid residues.
23. A method for modulating the adhesion of cells to a substrate comprising:
combining a peptide with a suspension of said cells to form a modified cell suspension, wherein the peptide has no more than about 6 amino acid residues and comprises a C-terminal LipAr motif; and
contacting the modified cell suspension with the substrate.

11/11/99 11:11:11

addc2

addc3